



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/622,297	07/17/2003	Hiroshi Akimoto	SCT108U	4857

7590 06/13/2007  
David L. Garrison  
Garrison & Associates PS  
Suite 3300  
2001 Sixth Avenue  
Seattle, WA 98121-2522

EXAMINER
----------

AMINI, JAVID A

ART UNIT	PAPER NUMBER
----------	--------------

2628

MAIL DATE	DELIVERY MODE
-----------	---------------

06/13/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

**Application No.**

10/622,297

**Applicant(s)**

AKIMOTO ET AL.

**Examiner**

Javid A. Amini

**Art Unit**

2628

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 17 July 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 12/3/2004.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 are rejected under 35 U.S.C. 102(e) as being anticipated by Okuda et al.

Patent No.: 6,493,467 B1.

**Claim 1.**

Okuda teaches a method for enlarging still images (i.e. noted in figs. 1 and 2, by enlarging the original image) or single video frames in an electronic media comprising the steps of: Okuda teaches selecting an image (see in fig. 74 ref.#84 input image selector) for enlargement (i.e. noted in col. 94 lines 3-9, enlarging and/or reducing the image); Okuda teaches selecting a filtering algorithm from a pre-determined library of algorithms based on the desired quality of the enlarged image (in col. 20 the bridging paragraph); Okuda teaches selecting a filter coefficients from a pre-determined library of filter coefficients based on the desired quality (i.e. noted in figs. 11 and 12) of the enlarged image and the speed of operation of the algorithm (i.e. noted in col. 21, lines 54-44); Okuda teaches constructing a filter mask for determining the value of the pixels to be added for enlarging the image (i.e. noted in col. 21 lines 46-52, also in col. 67 tables 3 and 4 have the pixel's value after n cycles); Okuda teaches executing the filter algorithm

Art Unit: 2628

on the horizontal rows of the image at each point (i.e. noted in col. 66 lines 16-26) where a pixel is to be added to determine the value of the pixel to be added (see in col. 66 table 2); and Okuda teaches executing the filter algorithm on the vertical columns of the image at each point (i.e. noted in col. 66 line 27-32) where a pixel is to be added to determine the value of the pixel to be added (see in col. 66 table 2).

Claim 2.

Claim 2 is rejected with a similar reason as set forth in claim 1, above, except claim 2 cites for reducing the size of still images (Okuda in figs. 5 and 6 illustrates the claim features).

Claim 3.

Claim 3 is rejected with a similar reason as set forth in claim 1, above. Claim 3 in the preamble uses a term “a polynomial interpretation” (i.e. noted in col. 19 lines 1-5).

Claim 4.

Claim 4 is rejected with a similar reason as set forth in claim 1, above. Part “b” of the claim is noted in col. 62 lines 1-9, and part “e” of the claim is noted in col. 72 lines 49-52.

Claim 5.

Claim 5 is rejected with a similar reason as set forth in claim 1, above.

Art Unit: 2628

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Kato et al.**

**Patent No: 6,016,362.**

Claim 3.

Kato discloses a new method for the scaling of images with the help of a polynomial (i.e. noted inherently in fig. 10) interpolation, which includes: Kato illustrates a method for the scaling of images as a whole an even number of times by width and length (by two dimensions) or by one dimension (i.e. noted in fig. 10); Kato teaches a rapid method for the scaling (reduction) of an image by a fraction of a number by any one of its dimensions (i.e. noted in fig. 10).

Claim 4.

Kato teaches a method for the scaling of a video sequence, including the following aspect: the input video sequence may be in any known video format (for example SIF, QCIF) (i.e. noted in figs. 4 A, B, and C); the input sequence of images is presented as one file, for example, as a video film (i.e. noted in figs. 4 A, B, and C); processing of the video sequence takes place frame-by-frame (i.e. noted in figs. 4 A, B, and C); the given method may be used for the processing of a regenerated video sequence after compression by any sort of coding method; the output video sequence also constitutes one file (i.e. noted in figs. 4 A, B, and C).

Claims 1-2, and 5 are rejected with similar reasons as set forth in claims 3-4, above.

***Conclusion***

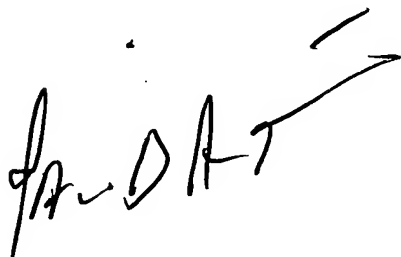
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A. Amini whose telephone number is 571-272-7654. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on 571-272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Javid A Amini  
Examiner  
Art Unit 2628

J.A.

A handwritten signature in black ink, appearing to read 'J.A. Amini', with a long horizontal stroke extending to the right.